

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

		_		1	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/608,739	06/30/2003	Toru Kanda	Q76329	7708	
23373 7	7590 09/09/2004		EXAMINER		
SUGHRUE MION, PLLC			JOYCE, WILLIAM C		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800		'.	ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20037		3682		
			DATE MAILED: 00/00/200	DATE MAILED: 00/00/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_
	10/608,739	KANDA ET AL.	Á
Office Action Summary	Examiner	Art Unit	\nearrow
	William C. Joyce	3682	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tiled by within the statutory minimum of thirty (30) day I will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. CD (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 30.	June 2003.		
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under	•		
Disposition of Claims			
4) ☐ Claim(s) 2.4 and 6 is/are pending in the application 4a) Of the above claim(s) is/are withdrays 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 2.4 and 6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers			•
9)⊠ The specification is objected to by the Examin	er.		
10)⊠ The drawing(s) filed on <u>30 June 2003</u> is/are: a		-	
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		• • • • • • • • • • • • • • • • • • • •	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received in Rule 17.2(a)).	ion No. <u>10/062,412</u> . ed in this National Stage	
Attachment(s)			
1) 🔯 Notice of References Cited (PTO-892)	4) 🔲 Interview Summary		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)	

Application/Control Number: 10/608,739

Art Unit: 3682

DETAILED ACTION

This is the First Office Action in response to the above identified patent application filed on June 30, 2003.

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because the implied phrase "The invention provides" (line 1) must be deleted. Correction is required. See MPEP § 608.01(b).

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "spacers" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should

Application/Control Number: 10/608,739 Page 3

Art Unit: 3682

include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 2, 4, 6, and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, it is unclear as to whether applicant is claiming at least one spacer or a plurality of spacers. For example, claim 2 defines "spacer" on line 9 and

[&]quot;spacers" on line 13.

Page 4

Application/Control Number: 10/608,739

Art Unit: 3682

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 2, 4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamkimura et al. (US Patent 6,149,307).

Kamimura et al. discloses a ball screw device having separators interposed between the balls. Referring to column 8, lines 43-45, Kamimura et al. discloses "The separator 30 is used to minimize, preferably to eliminate the clearance between the adjoining balls 7 in the circulating paths." It is also understood the separators are formed of resin, and therefore any variation of the gaps would be absorbed by the resilience of the resin material.

8. Claims 2, 4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Cole (US Patent 3,053,105).

Cole discloses a ball screw device having separators interposed between the balls. Cole discloses the separators being formed of a resilient material, and therefore any variation of the gaps would be absorbed by the resilience of the resin material.

Application/Control Number: 10/608,739

Art Unit: 3682

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note the ball screw of Takagi et al. ('209).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Joyce whose telephone number is (703) 305-5114. The examiner can normally be reached on Monday - Thursday 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (703) 308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William C. Jorce 9/2/04